

ABSTRACT

Quarterback Win Rating: A Superior Methodology for Evaluating Quarterbacks

Given the importance of the quarterback position in football, the Passer Rating (Rate) and Total Quarterback Rating (QBR) formulas have been developed. In this paper, we present a superior methodology for evaluating quarterbacks: Quarterback Win Rating (QWR). With QWR we use quarterback winning percentage as the dependent variable, and other available quarterback statistics as possible independent variables. The independent variables chosen for a given year are selected through analyzing the previous five years of quarterback data through the use of stepwise multiple regression. In this way, the best model is picked every year and is tied to wins.

Keywords: Analytics, Football, Compensation, Regression Analysis, Forecasting